

Sequence Alignment

RESULT 2
AY50932
ID AY50932 standard; Protein; 441 AA.
XX
AC AAY50932;
XX DT 10-MAR-2000 (first entry)
XX DE Human fetal brain cDNA clone vc26_1 derived protein #1.
XX KW Human; secreted protein; treatment; nutritional activity; cytokine;
KW cell proliferation; cell differentiation; hematopoiesis regulation;
KW tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
KW thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
KW gene therapy.
XX OS Homo sapiens.
XX PN WO9955721-A1.
XX PD 04-NOV-1999.
XX PF 23-APR-1999; 99WO-US08504.
XX PR 24-APR-1998; 98US-0082904.
PR 11-JUN-1998; 98US-0088994.
PR 12-JUN-1998; 98US-0089278.
PR 02-JUL-1998; 98US-0091647.
PR 24-AUG-1998; 98US-0097639.
PR 22-APR-1999; 99US-0097639.
XX PA (ALPH-) ALPHAGENE INC.
XX PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX DR WPI; 2000-052801/04.
DR N-PSDB; AAZ43798.
XX PT New polynucleotides encoding secreted human proteins, derived from
PT human fetal brain, adult skin, adult brain, adult heart, adult thymus
PT and adult aorta cDNA libraries.
XX PS Claim 53a; Page 246-247; 282pp; English.
XX CC This invention describes novel human secreted proteins which are encoded
CC by polynucleotides obtained from fetal brain, adult skin, adult brain,
CC adult heart, adult thymus and adult aorta cDNA libraries. The
CC polynucleotides and proteins are predicted to have biological activities
CC which would make them suitable for treating, preventing or ameliorating
CC medical conditions in humans and animals, although no supporting data
CC is given. Suggested activities include nutritional activity, cytokine
CC and cell proliferation/differentiation activity, immune stimulating
CC (e.g. as vaccines) or suppressing activity, hematopoiesis regulating
CC activity, tissue growth activity, activin/inhibin activity,
CC chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
CC invasion suppressor activity, and tumor inhibition activity. The
CC polynucleotides are also stated to be useful for gene therapy.
CC AAY50905-Y50947 represent the secreted proteins described in the method
CC of the invention which are encoded by the polynucleotides represented in
CC AAZ43777-243808.
XX SQ Sequence 441 AA;

Query Match 100.0%; Score 2326; DB 21; Length 441;
Best Local Similarity 100.0%; Pred. No. 6.5e-241;
Matches 441; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAIKHALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSAGWGVLEAVAGAG 60
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 maihkalvmclglplflfpwgawaqghvppgcsqqlnplyynlcdrsagwgvleavagag 60
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 61 IVTTFVLTIIILVASLPFVQDTKKRSILLGTQVFFLLGTLGLFCLVFACVVKPDFSTCASRR 120
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 ivttfvltiilvaslpfvqdtkrsillgtqffllgtlglfcvlfvacvvkpdfstcasrr 120
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 121 FLFGVLFAICFSCLAHHVFAFLNFLARKNHGPGRGWVIFTVALLLTLEVIVIINTEWLITLV 180
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 flfgvlfaiicfsclaahvfafnlarknhgpgrgwviftvalltlleviintewlitlv 180
||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 181 RGSGEGGPQGNSSAGWAVASPCAIANDFVMA利YVMLLGAFLGAWPALCGRYKRWRK 240
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 181 rgsgeggpqgnssagwavaspcaianmdfvmalivmlillgaflgawpalcgrykrwrk 240
||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 241 HGVFVLLTATSVIAWVWIVMYTYGNKQHNSPTWDDPTLAIALAANAWAFVLFYVIPEV 300
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 241 hgvfvlittatsvaiwwivmytygnkqhnspwtddptlaialaanawafvlfyvihev 300
||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 301 SQVTKSSPEQSYQGDMYPTRGVGYETILKEQKGQSMFVENKAFAFSMDEPVAAKRPVSPYSG 360
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 301 sqvtksspeqsyqgdmyptrgvgyetilkeqkgqsmfvenkafafsmdepvaakrpvpysg 360
||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 361 YNGQLLTSVYOPTEMALMHKVPSEGAYDIILPRATANSQVMGSANSTLRAEDMYSQAOSHQ 420
||| ||||| ||||| ||||| ||||| ||||| |||||
Db 361 yngqlltsvyoptemalmhkvpsegaydiilpratansqvmgsanstlraedmystsqaoshq 420
||| ||||| ||||| ||||| ||||| |||||
Qy 421 AATPPKDGGNSQVERNPYWD 441
||| ||||| |||||
Db 421 aatppkdggnsqvfrnpwywd 441

RESULT 3
AAZ43798
ID AAZ43798 standard; cDNA; 1936 BP.
XX
AC AAZ43798;
XX
DT 10-MAR-2000 (first entry)
XX
DE Human fetal brain cDNA clone vc26_1.
XX
KW Human; secreted protein; treatment; nutritional activity; cytokine;
cell proliferation; cell differentiation; hematopoiesis regulation;
tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
gene therapy; ds.
XX
OS Homo sapiens.
XX
PN WO9955721-A1.
XX
PD 04-NOV-1999.
XX
PF 23-APR-1999; 99WO-US08504.
XX
PR 24-APR-1998; 98US-0082904.
PR 11-JUN-1998; 98US-0088994.
PR 12-JUN-1998; 98US-0089278.
PR 02-JUL-1998; 98US-0091647.
PR 24-AUG-1998; 98US-0097639.
PR 22-APR-1999; 99US-0097639.
XX
PA (ALPH-) ALPHAGENE INC.
XX
PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX
DR WPI: 2000-052801/04.
DR P-PSDB; AAY50932, AAY50933.
XX
PT New polynucleotides encoding secreted human proteins, derived from
PT human fetal brain, adult skin, adult brain, adult heart, adult thymus
PT and adult aorta cDNA libraries.
XX
PS Claim 52a; Page 245-246; 282pp; English.
XX
CC This invention describes novel human secreted proteins which are encoded
CC by polynucleotides obtained from fetal brain, adult skin, adult brain,
CC adult heart, adult thymus and adult aorta cDNA libraries. The
CC polynucleotides and proteins are predicted to have biological activities
CC which would make them suitable for treating, preventing or ameliorating
CC medical conditions in humans and animals, although no supporting data
CC is given. Suggested activities include nutritional activity, cytokine
CC and cell proliferation/differentiation activity, immune stimulating
CC (e.g. as vaccines) or suppressing activity, hematopoiesis regulating
CC activity, tissue growth activity, activin/inhibin activity,
CC chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
CC invasion suppressor activity, and tumor inhibition activity. The
CC polynucleotides are also stated to be useful for gene therapy.
CC AAZ43777-243808 represent the polynucleotides described in the invention
CC which encode the proteins represented in AAY50905-Y50947.
XX
SQ Sequence 1936 BP; 449 A; 581 C; 532 G; 374 T; 0 other;

Query Match 98.9%; Score 1798.8; DB 21; Length 1936;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1803; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 10 ccctcaccagccggaaaagtacgagtcggctcagcgtggagggaccaccaaccagagctggc 69
Db 15 ccctcaccagccggaaaagtacgagtcggctcagcgtggagggaccaccaaccagagctggc 74

Qy 70 ctgggagccaggatggccatccacaagcccttgtatgtgcctggactgcctctttc 129
Db 75 ctgggagccaggatggccatccacaagcccttgtatgtgcctggactgcctctttc 134

Qy 130 ctgttcccagggcctggcccatgtcccacccggctgcagccaaggccctcaac 189
Db 135 ctgttcccagggcctggcccatgtcccacccggctgcagccaaggccctcaac 194

Qy 190 cccctgtactacaacctgtgtgaccgctctggggcatcgctctggaggccgtg 249
Db 195 cccctgtactacaacctgtgtgaccgctctggggcatcgctctggaggccgtg 254

Qy 250 gctggggcggcattgtcaccacgtttgtcaccatcatcctgtggccagccccc 309

Sequence Alignment

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RESULT 8
US-10-097-065-146
; Sequence 146, Application US/10097065
; Publication No. US20030055236A1

; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: PZ021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 146
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (400)
; OTHER INFORMATION: Xaa equals stop translation
US-10-097-065-146

Query Match 87.1%; Score 384; DB 9; Length 400;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG 60
Db	1 MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG 60
Qy	61 IVTTFVLTIILVASLPLFVQDTKRSLLGTQVFLLGTGLFCLVFACVVKPDFSTCASRR 120
Db	61 IVTTFVLTIILVASLPLFVQDTKRSLLGTQVFLLGTGLFCLVFACVVKPDFSTCASRR 120
Qy	121 FLFGVLFICFSCLAAHVFAFLNFLARKNHGPRGVWIFTVALLTLVEVIINTEWLITLV 180
Db	121 FLFGVLFICFSCLAAHVFAFLNFLARKNHGPRGVWIFTVALLTLVEVIINTEWLITLV 180
Qy	181 RGSGEPPQGNSSAGWAVASPCAIANMDFVMALIYVMLLLGAFLGAWPALCGRYKWRK 240
Db	181 RGSGEPPQGNSSAGWAVASPCAIANMDFVMALIYVMLLLGAFLGAWPALCGRYKWRK 240
Qy	241 HGVFVLLTTATSVIAWWIVMYTYGNKQHNSPTWDDPTLAIALAANAWAFVLFYVIPEV 300
Db	241 HGVFVLLTTATSVIAWWIVMYTYGNKQHNSPTWDDPTLAIALAANAWAFVLFYVIPEV 300
Qy	301 SQVTKSPEQSYQGDMPTRGVGYETILKEQKGQSMFVENKAFAFSMDEPVAAKRVPSPYSG 360
Db	301 SQVTKSPEQSYQGDMPTRGVGYETILKEQKGQSMFVENKAFAFSMDEPVAAKRVPSPYSG 360
Qy	361 YNGQLLTSVYQPTEMALMHKPSE 384
Db	361 YNGQLLTSVYQPTEMALMHKPSE 384